

Patent Application  
ATM-515 (7486)

5. (Original) The process according to claim 1, wherein said cyclosiloxane precursor comprises the formula  $[RR'Si-O]_n$ , wherein each of R and R' is same or different and independently selected from the group consisting of hydrogen, hydroxyl, C<sub>1</sub>-C<sub>8</sub> alkyl, C<sub>1</sub>-C<sub>8</sub> alkoxy, C<sub>1</sub>-C<sub>8</sub> alkene, C<sub>1</sub>-C<sub>8</sub> alkyne, and C<sub>1</sub>-C<sub>8</sub> carboxyl; and n is from 2 to 8.
6. (Original) The process according to claim 1, wherein the cyclosiloxane precursor is selected from the group consisting of polyhedral oligomeric silsesquioxanes (POSS), octamethylcyclotetrasiloxane (OMCTS), hexamethylcyclotetrasiloxane (HMCTS), tetramethylcyclotetrasiloxane (TMCTS), and mixtures thereof.
7. (Original) The process according to claim 1, wherein the cyclosiloxane precursor is 1,3,5,7-tetramethylcyclotetrasiloxane.
8. (Cancelled).
9. (Currently amended) The process according to claim 1, wherein ~~said adsorbent bed material is selected from the group consisting of: silica gel, molecular sieves, aluminum oxide, and carbon~~ in step (b), said cyclosiloxane precursor is treated by:  
contacting the cyclosiloxane precursor with an adsorbent bed material to produce said purified cyclosiloxane precursor; and  
removing the purified cyclosiloxane precursor from the adsorbent bed material.
10. (Currently amended) The process according to claim ~~1~~ 9, wherein said adsorbent bed material is selected from the group consisting of: silica gel, molecular sieves, aluminum oxide, carbon, calcium oxide, calcium chloride, sodium sulfate, magnesium perchlorate, phosphorus pentoxide, silicide, metals, and metal hydrides calcium hydride.
11. (Currently amended) The process according to claim ~~1~~ 9, wherein the adsorbent bed material is calcium oxide.
12. (Currently amended) The process according to claim ~~1~~ 9, wherein the adsorbent bed material is calcium hydride.

Patent Application  
ATM-515 (7486)

13. (Currently amended) The process according to claim 1 9, wherein the adsorbent bed material comprises a combination of adsorbents.
14. (Currently amended) The process according to claim 1 9, wherein the cyclosiloxane precursor is further contacted with adsorbent bed material further comprises a second adsorbent bed material.
15. (Currently amended) The process according to claim 1 9, wherein said purified cyclosiloxane precursor is removed from said adsorbent bed material by distillation.
16. (Currently amended) The process according to claim 1 9, wherein said purified cyclosiloxane precursor is removed from said adsorbent bed material by decantation.
17. (Currently amended) The process according to claim 1 9, wherein said purified cyclosiloxane precursor is removed from said adsorbent bed material by pump.
18. (Currently amended) The process according to claim 2 1, wherein ~~the level of the at least one impurity in the said purified cyclosiloxane precursor is reduced to~~ comprises less than  $< 0.001\%$  of the at least one impurity.
19. (Currently amended) The process according to claim 2 1, wherein ~~the level of the at least one impurity in the said purified cyclosiloxane precursor is reduced to~~ comprises less than  $< 0.00001\%$  of the at least one impurity.
20. (Cancelled).
21. (Currently amended) The process according to claim 2 1, wherein ~~the level of water in the said purified cyclosiloxane precursor is reduced to~~ comprises less than  $< 0.00001\%$  water.
- 22- 46. (Canceled).